Fig.1

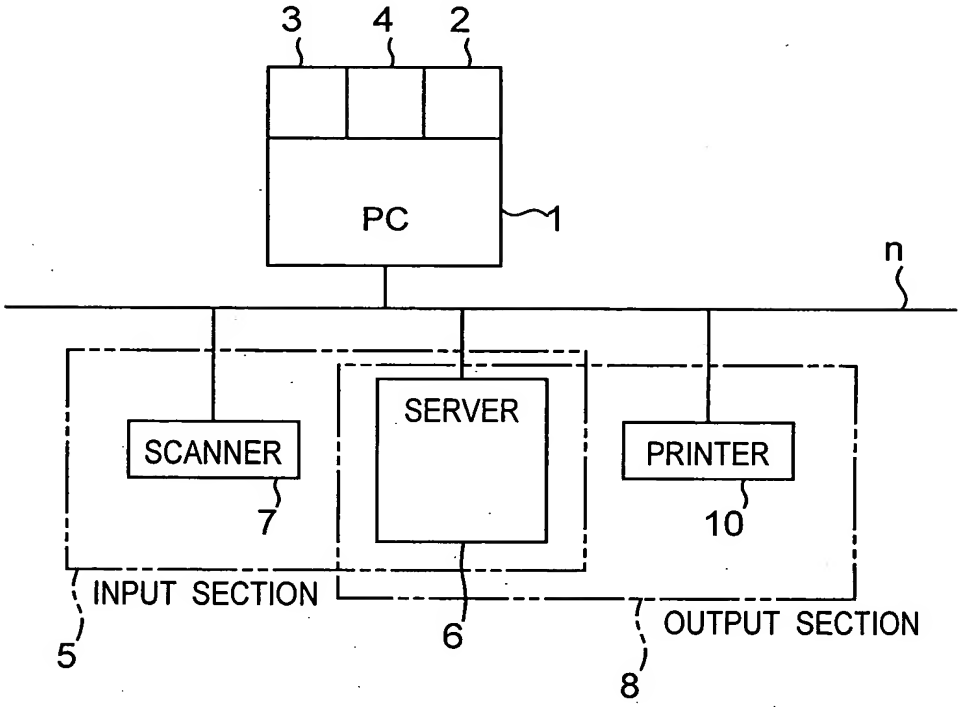

3
4
2
PC
1
n
SCANNER
7
SERVER
PRINTER
10
INPUT SECTION
5
6
OUTPUT SECTION
8

Fig.2

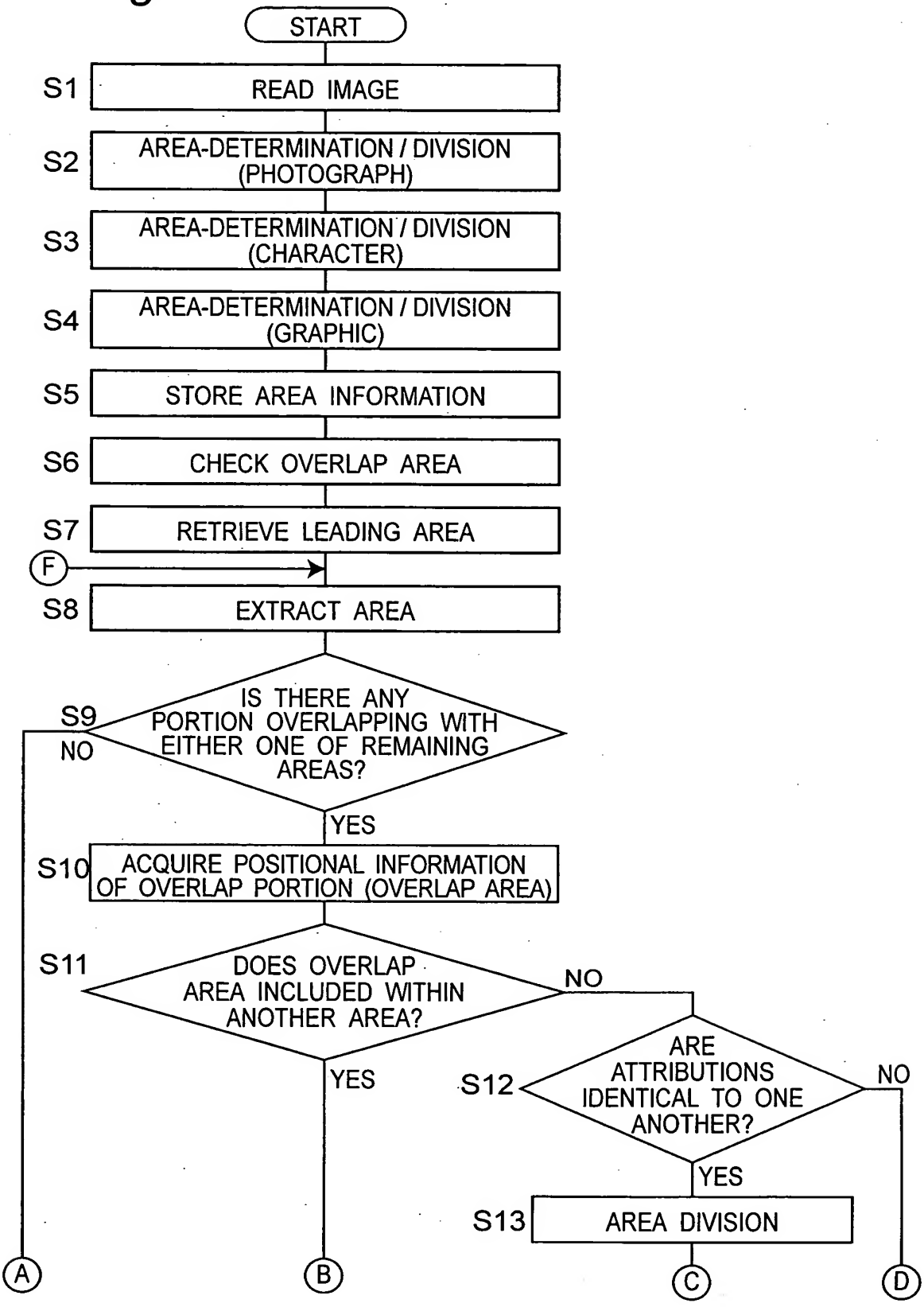

START
S1
READ IMAGE
S2
AREA-DETERMINATION / DIVISION (PHOTOGRAPH)
S3
AREA-DETERMINATION / DIVISION (CHARACTER)
S4
AREA-DETERMINATION / DIVISION (GRAPHIC)
S5
STORE AREA INFORMATION
S6
CHECK OVERLAP AREA
S7
RETRIEVE LEADING AREA
F
S8
EXTRACT AREA
S9
IS THERE ANY PORTION OVERLAPPING WITH EITHER ONE OF REMAINING AREAS?
NO
YES
S10
ACQUIRE POSITIONAL INFORMATION OF OVERLAP PORTION (OVERLAP AREA)
S11
DOES OVERLAP AREA INCLUDED WITHIN ANOTHER AREA?
NO
YES
S12
ARE ATTRIBUTIONS IDENTICAL TO ONE ANOTHER?
NO
YES
S13
AREA DIVISION
A
B
C
D

Fig.3

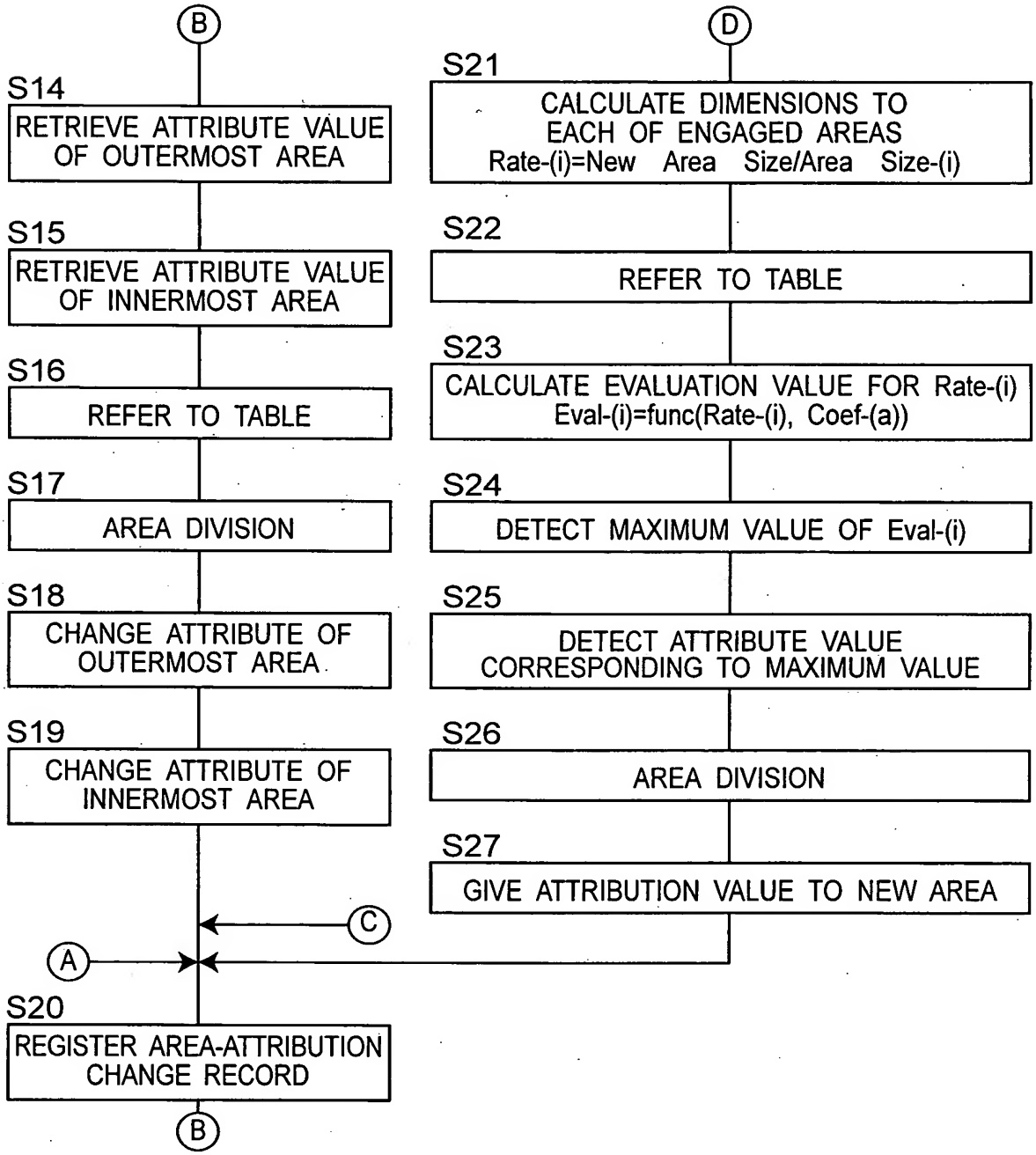

B
S14
RETRIEVE ATTRIBUTE VALUE OF OUTERMOST AREA
S15
RETRIEVE ATTRIBUTE VALUE OF INNERMOST AREA
S16
REFER TO TABLE
S17
AREA DIVISION
S18
CHANGE ATTRIBUTE OF OUTERMOST AREA
S19
CHANGE ATTRIBUTE OF INNERMOST AREA
C
A
S20
REGISTER AREA-ATTRIBUTION CHANGE RECORD
B
D
S21
CALCULATE DIMENSIONS TO EACH OF ENGAGED AREAS
Rate-(i)=New Area Size/Area Size-(i)
S22
REFER TO TABLE
S23
CALCULATE EVALUATION VALUE FOR Rate-(i)
Eval-(i)=func(Rate-(i), Coef-(a))
S24
DETECT MAXIMUM VALUE OF Eval-(i)
S25
DETECT ATTRIBUTE VALUE CORRESPONDING TO MAXIMUM VALUE
S26
AREA DIVISION
S27
GIVE ATTRIBUTION VALUE TO NEW AREA

Fig.4

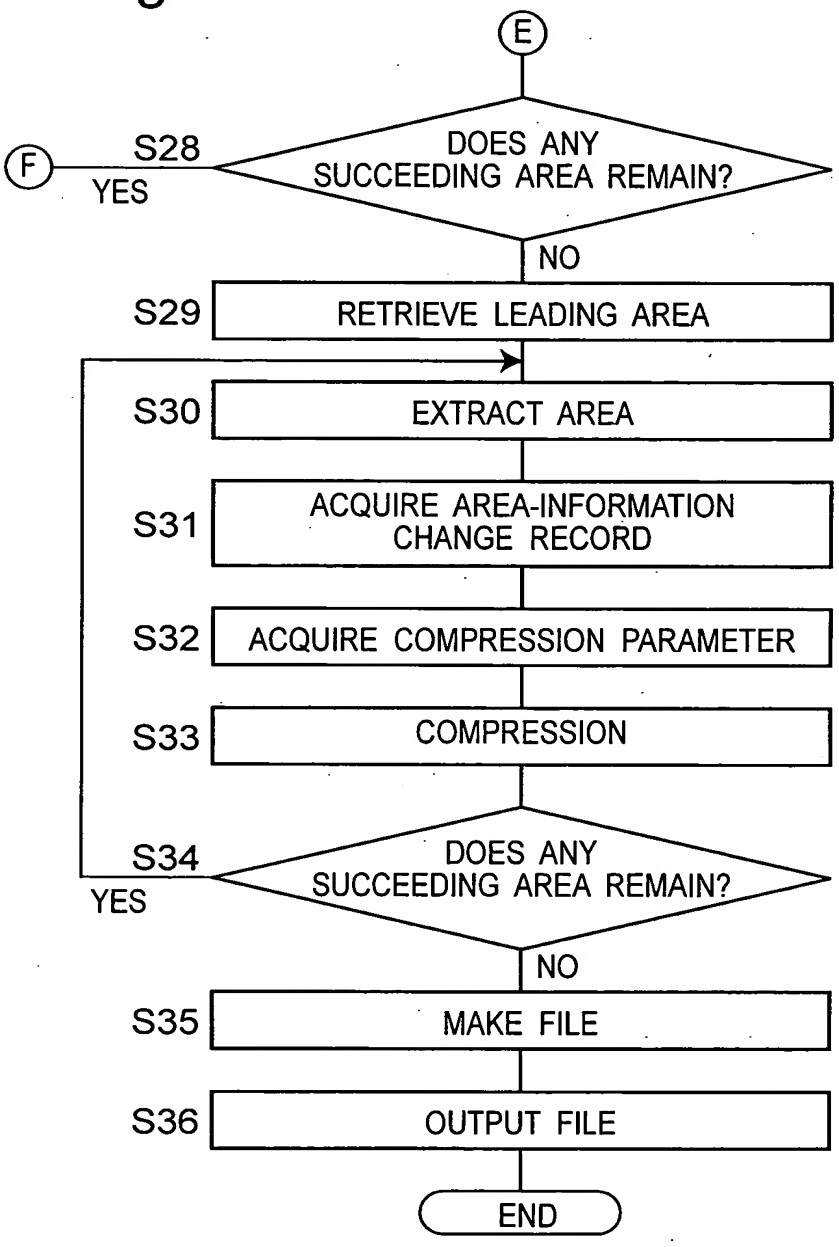

E
S28
DOES ANY SUCCEEDING AREA REMAIN?
F
YES
NO
S29
RETRIEVE LEADING AREA
S30
EXTRACT AREA
S31
ACQUIRE AREA-INFORMATION CHANGE RECORD
S32
ACQUIRE COMPRESSION PARAMETER
S33
COMPRESSION
S34
DOES ANY SUCCEEDING AREA REMAIN?
YES
NO
S35
MAKE FILE
S36
OUTPUT FILE
END

Fig.5

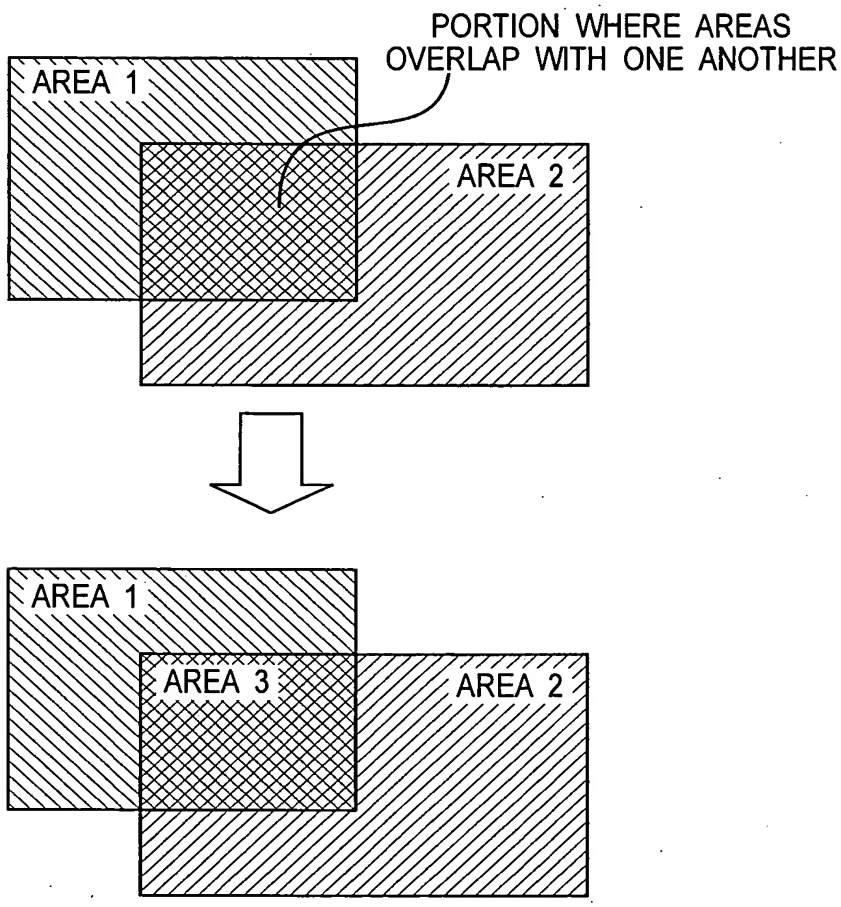

PORTION WHERE AREAS OVERLAP WITH ONE ANOTHER
AREA 1
AREA 2
AREA 1
AREA 3
AREA 2

Fig.6

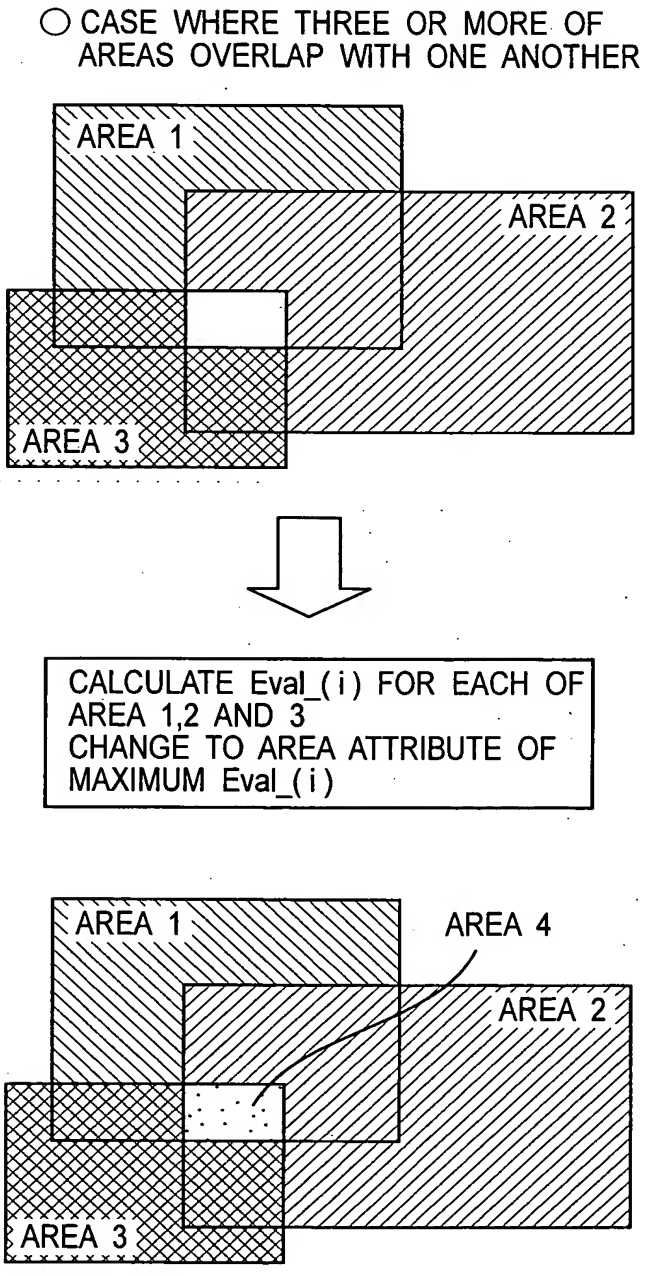

○ CASE WHERE THREE OR MORE OF AREAS OVERLAP WITH ONE ANOTHER
AREA 1
AREA 2
AREA 3
CALCULATE Eval_(i) FOR EACH OF AREA 1,2 AND 3
CHANGE TO AREA ATTRIBUTE OF MAXIMUM Eval_(i)
AREA 1
AREA 4
AREA 2
AREA 3

Fig.7

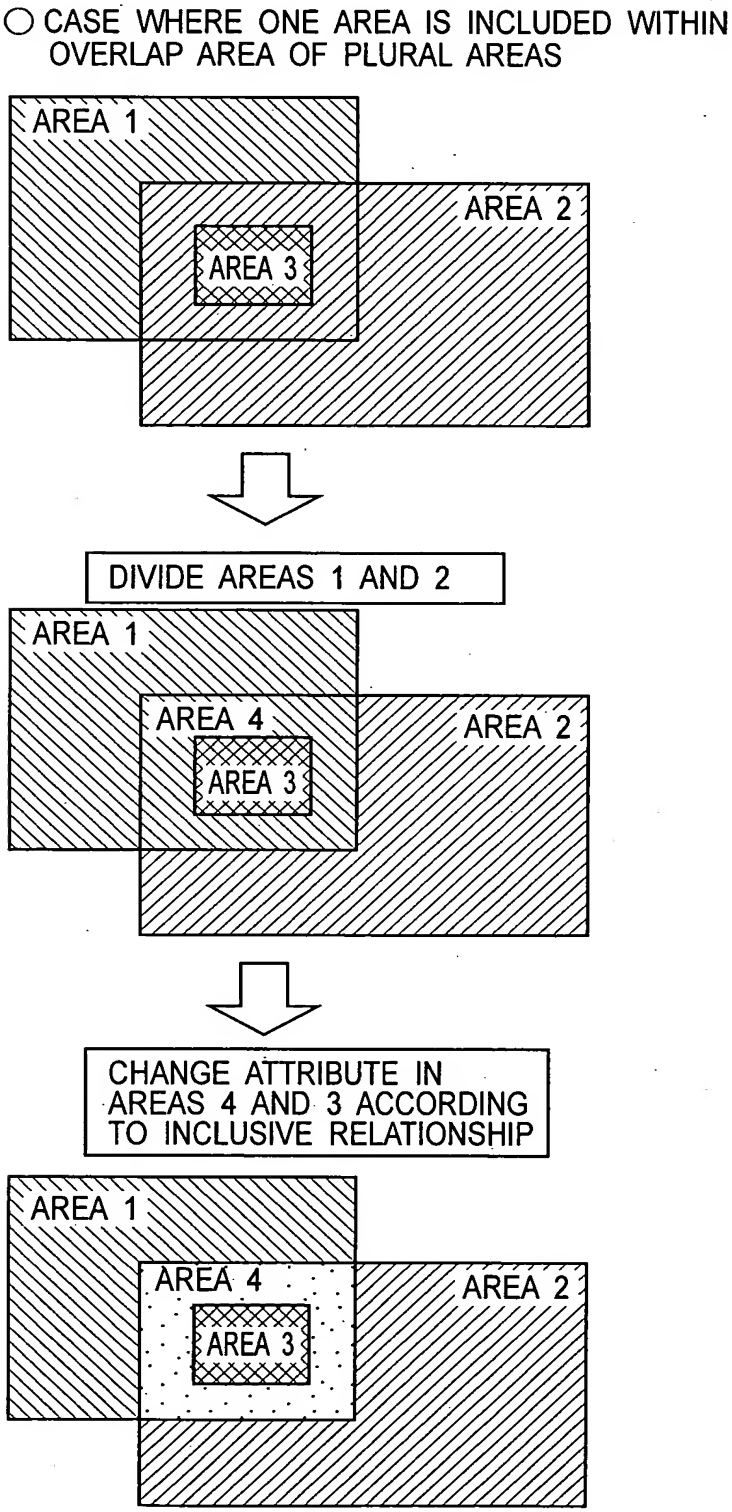

○ CASE WHERE ONE AREA IS INCLUDED WITHIN OVERLAP AREA OF PLURAL AREAS
AREA 1
AREA 2
AREA 3
DIVIDE AREAS 1 AND 2
AREA 1
AREA 4
AREA 2
AREA 3
CHANGE ATTRIBUTE IN AREAS 4 AND 3 ACCORDING TO INCLUSIVE RELATIONSHIP
AREA 1
AREA 4
AREA 2
AREA 3

Fig.8

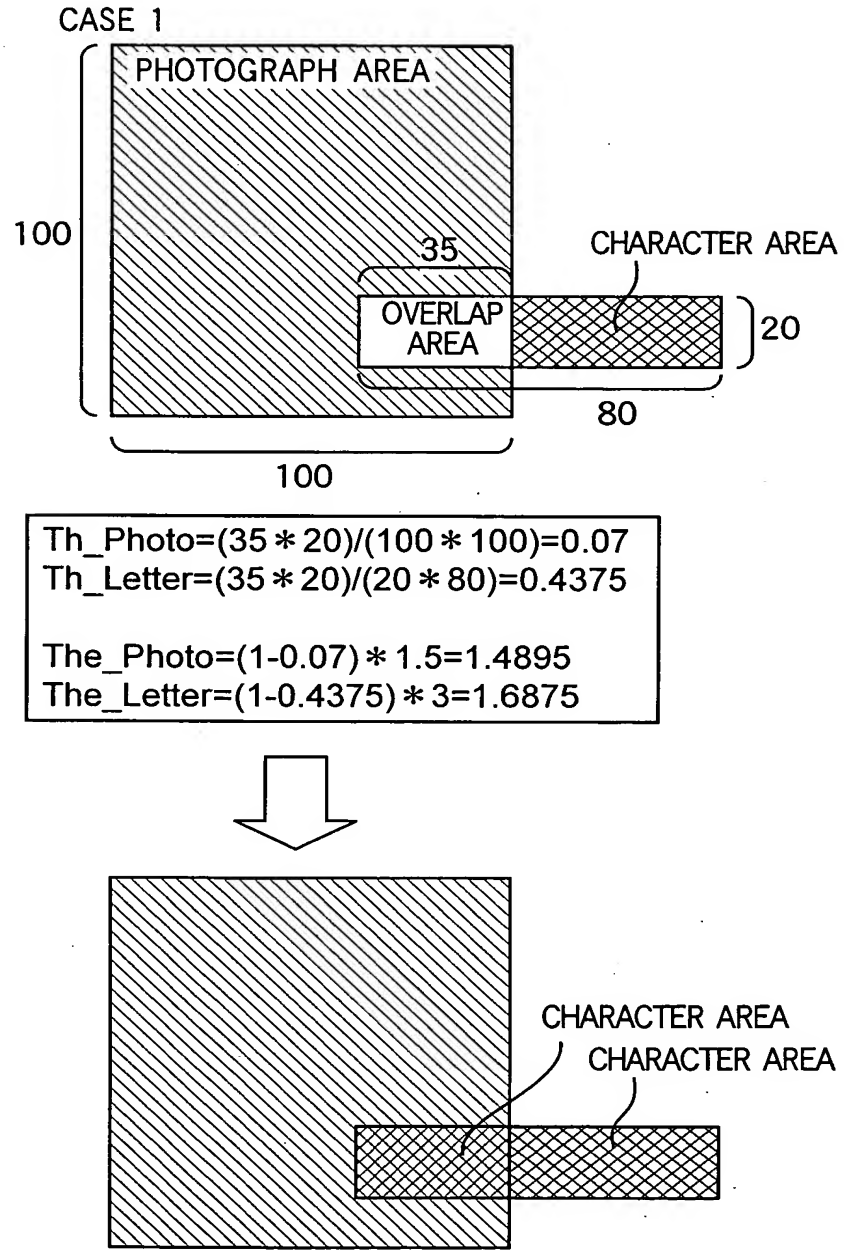

CASE 1
PHOTOGRAPH AREA
100
35
CHARACTER AREA
OVERLAP AREA
20
80
100
Th_Photo=(35 * 20)/(100 * 100)=0.07
Th_Letter=(35 * 20)/(20 * 80)=0.4375
The_Photo=(1-0.07) * 1.5=1.4895
The_Letter=(1-0.4375) * 3=1.6875
CHARACTER AREA
CHARACTER AREA

Fig.9

CASE1

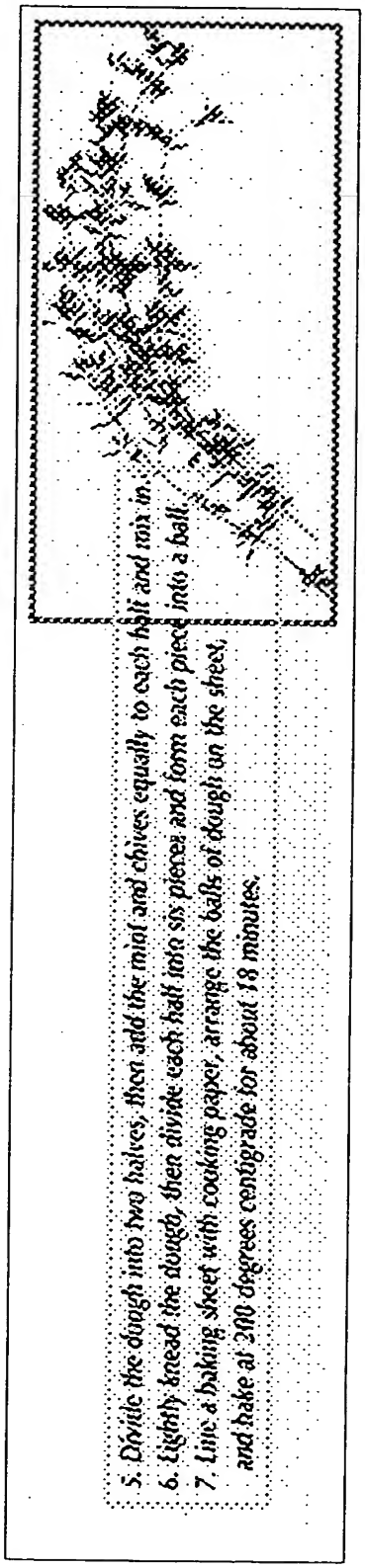
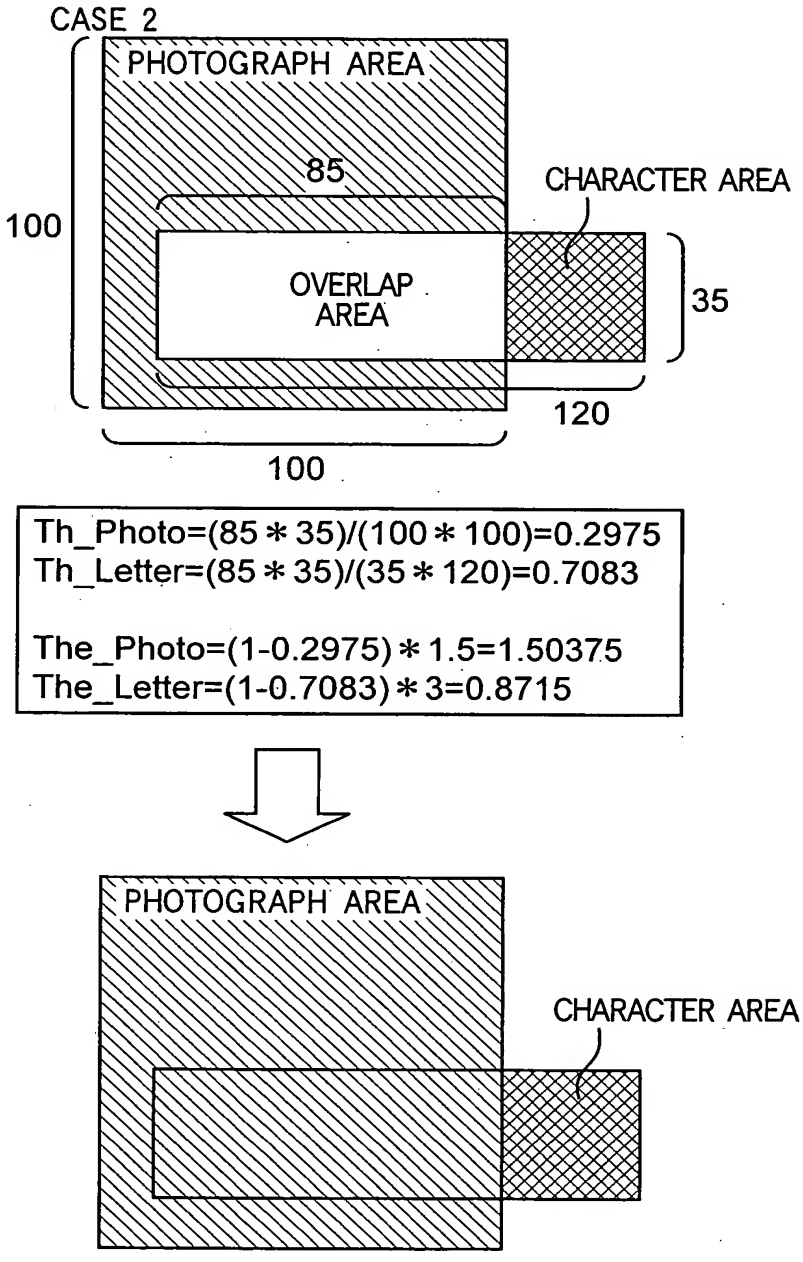
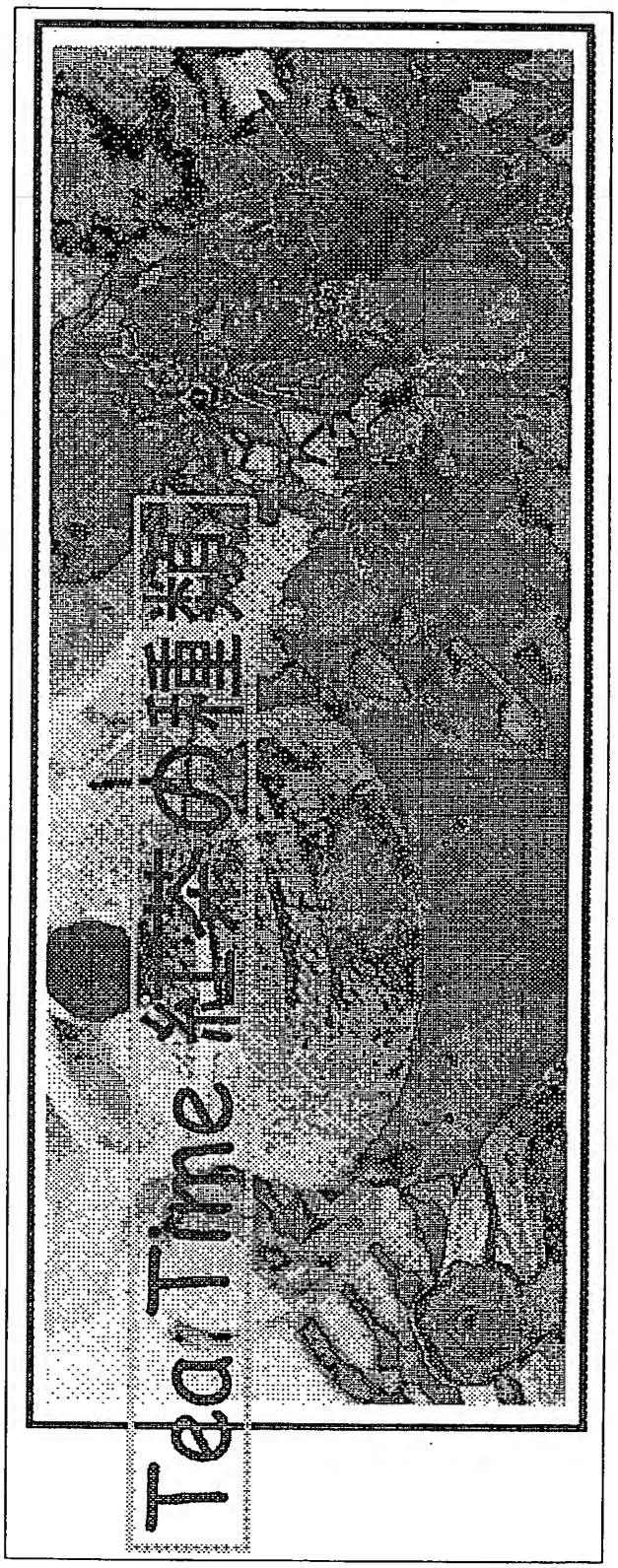

5. Divide the dough into two halves, then add the mint and chives equally to each half and mix in.
6. Lightly knead the dough, then divide each half into six pieces and form each piece into a ball.
7. Line a baking sheet with cooking paper, arrange the balls of dough on the sheet, and bake at 200 degrees centigrade for about 18 minutes.

Fig.10


CASE 2
PHOTOGRAPH AREA
85
CHARACTER AREA
100
OVERLAP AREA
35
120
100
Th_Photo=(85 * 35)/(100 * 100)=0.2975
Th_Letter=(85 * 35)/(35 * 120)=0.7083
The_Photo=(1-0.2975) * 1.5=1.50375
The_Letter=(1-0.7083) * 3=0.8715
PHOTOGRAPH AREA
CHARACTER AREA



CASE2

Fig. 11